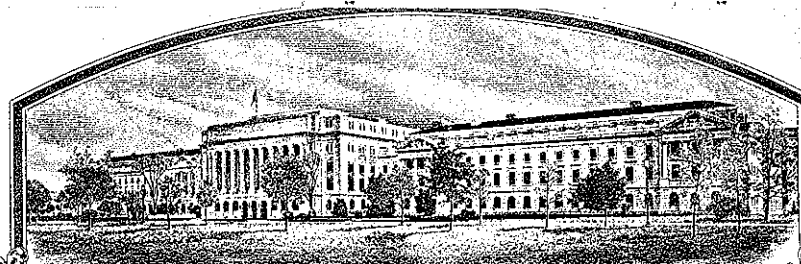


No.



8000020

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Moran Seeds, Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (PLANT VARIETY PROTECTION ACT, 35 U.S.C. 2132, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

MUSKMELON

'Top Net'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 31st day of July in the year of our Lord one thousand nine hundred and eighty.

Attest:

*Samuel H. Case*  
Commissioner

Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*[Signature]*  
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED  
OMB NO. 40-R3822

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY Experimental 1729		1b. VARIETY NAME Top Net		FOR OFFICIAL USE ONLY PV NUMBER 8000020	
2. KIND NAME Muskmelon		3. GENUS AND SPECIES NAME Cucumis melo		FILING DATE 12-11-79	TIME 2:00 <u>P.M.</u>
4. FAMILY NAME (BOTANICAL) Cucurbitaceae		5. DATE OF DETERMINATION 10/5/79		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 12-11-79 6/23/80
6. NAME OF APPLICANT(S) Moran Seeds, Inc.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 1155 Harkins Rd., Salinas, CA, 93901		8. TELEPHONE AREA CODE AND NUMBER (408) 757-3651	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION California		11. DATE OF INCORPORATION August 15, 1963
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: John H. Howell, Moran Seeds, Inc., 1155 Harkins Rd., Salinas, CA 93901					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.)			<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?		
<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)				
15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)				

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

November 29, 1979

(DATE)

Moran Seeds, Inc.

(SIGNATURE OF APPLICANT)

by John H. Howell Plant Breeder

(SIGNATURE OF APPLICANT)

## INSTRUCTIONS

**GENERAL:** Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

### ITEM

5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.

14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

EXHIBIT AOrigin and Breeding History of the Top Net Variety

1. Top Net is an open-pollinated Western shipping type variety resulting from the cross PMR 45 x Top Mark. Following the cross, type selection under field conditions for the fully netted characteristic of the male parent, Top Mark, was conducted for two generations. Occurrence of the rib or suture characteristic of the female parent, PMR 45, was thereby effectively reduced to 0.2% of the population in the third generation, at which time the variety became stabilized. Commercial seed production was initiated at this time.
2. In addition to selection for external net appearance of the fruit, selection pressure has been applied in each generation for other fruit characteristics, including:
  1. small stem scar (less than 18mm diameter)
  2. small blossom scar (less than 26mm diameter)
  3. slight oval-round shape
  4. dark orange flesh color
  5. high percent soluble solids (12%-16%)
  6. small and tight seed cavity (less than 63mm diameter)

Muskmelon Application No. 8000020, 'Top Net'

EXHIBIT A addendum

1. Type and frequency of variants that occur during reproduction of 'Top Net'.

One variant type fruit occurs in the reproduction of 'Top Net'. It is a ribbed or sutured fruit of the 'PMR 45' type and is indistinguishable from fruits of the 'PMR 45' variety. The ribs of the variant fruit, like those of 'PMR 45' may range from bare to fully netted over depending upon the growing conditions, but in any event the variant fruit are identical to the normal ribbed fruit of the 'PMR 45' variety.

This 'PMR 45' type variant occurs in the 'Top Net' population at a frequency of 0.2 percent or less. No other variants have been observed in 'Top Net'.

2. Evidence of uniformity and stability of 'Top Net'.

A 20 acre seed production planting of 'Top Net' near Arbuckle, California in 1979 was carefully monitored during the growing season for trueness to type of the fruit. At full maturity of the crop an accurate count of the ribbed or sutured fruit variant in the population was made. In two random rows 1/4 mile long, 12 plants with the ribbed or sutured variant fruit were observed. All other plants possessed the normal 'Top Net' type fruit. This calculates to 0.2 percent of the population with variant type fruit as follows:

$$\frac{12 \text{ variant plants}}{1320 \text{ ft./row} \times 3 \text{ plants/ft.} \times 2 \text{ rows}} = 0.0015 \text{ or } 0.2 \text{ percent variants.}$$

In 1978 a one acre stockseed planting of 'Top Net' was made at Gilroy, California. At maturity and prior to seed harvest, the entire field was carefully checked for trueness to type of the fruit. Sixty-seven plants with ribbed or sutured fruit were observed. There were no other variant types in the population and the percentage of ribbed or sutured variants is calculated as follows:

$$\frac{200 \text{ fruit}}{3 \text{ fruit/plant}} = 67 \text{ variant plants.}$$

$$\frac{13,067 \text{ ft. row/acre (40")} \times 2 \text{ plants/ft.}}{= .0026 \text{ or } 0.3 \text{ percent variants.}}$$

In the 1977 trial of 'Top Net' grown at San Juan Bautista, California, three hundred plants were observed and two variants of the ribbed or sutured fruit type were found. This calculates to 0.7 percent as follows:

$$\frac{2 \text{ variant plants}}{5 \text{ rows} \times 30 \text{ ft/row} \times 2 \text{ plants/ft.}} = 0.0066 \text{ or } 0.7 \text{ percent variants.}$$

The above three years' data represent the last three consecutive generations of 'Top Net' reproduction. Only one type of variant, a ribbed or sutured fruit of the 'PMR 45' type, has been observed, and in a very small percentage of the population; e.g. from 0.7 to 0.2 percent. This indicates a high degree of uniformity in the population of the 'Top Net' variety.

It should also be noted that each successive generation of 'Top Net' reproduction has resulted in a halving of the variant expression observed in the preceding generation. The variant levels in the final two generations are at very low frequencies (0.3 and 0.2 percent, respectively), and therefore the population of 'Top Net' is for all practical purposes stabilized.

EXHIBIT B

Novelty Statement

8000020

The principal distinguishing characteristics of Top Net which differentiate this variety from PMR 45 and Top Mark, the two varieties most similar to it, are its pattern of rib or suture development, powdery mildew reaction, sulfur reaction, and maturity time.

Regarding the pattern of rib or suture development, the ovaries of Top Net in the blossom stage and post-bloom stage, exhibit faint longitudinal lines (precursor of ribs or sutures), compared with the ovaries of Top Mark which have no lines. PMR 45 ovaries at blossom stage and post-bloom stage express distinct longitudinal lines (photographs 1-6). At maturity, Top Net fruit resemble those of Top Mark in that neither have ribs or sutures. Mature fruit of PMR 45 possess distinct ribs or sutures - from smooth to fully netted over (photographs 7-9).

These and other selected characteristics of Top Net as compared with the two most similar varieties, PMR 45 and Top Mark, are tabulated as follows:

Characteristic	Top Net	PMR 45	Top Mark
1. Ribs or sutures, mature fruit	absent	present	absent
2. Ovary longitudinal lines, blossom stage and post-bloom stage	faint	distinct	absent
3. Powdery mildew reaction ( <u>Spherotheca fuliginea</u> race 1)	tolerant	resistant	susceptible
4. Sulfur reaction (SR)	tolerant	susceptible	resistant
5. Average maturity, days	78	74	82
6. Vine size	medium	medium	large
7. Fruit shape, cross section	round	round	round to triangular
8. Soluble solids, percent	10-16	8-13	10-16

MUSKMELON APPLICATION NO. 800020, 'TOP NET'

EXHIBIT B addendum

Yield data from three cantaloupe (muskmelon) variety trials expressed by date of pick or time of harvest and showing that 'Top Net' is earlier in maturity than 'Top Mark' and later in maturity than 'PMR 45'.

Five Points, California<sup>1</sup>

Yields of cantaloupe varieties evaluated at the West Side Field Station in 1979. All yield values are wood crate equivalents per acre and each value represents an average of 5 replications.

<u>Variety</u>	<u>Cumulative Yield of Marketable Fruit crate equivalents per acre</u>					
	<u>1</u> <u>Pick</u>	<u>2</u> <u>Picks</u>	<u>3</u> <u>Picks</u>	<u>4</u> <u>Picks</u>	<u>5</u> <u>Picks</u>	<u>6</u> <u>Picks</u>
'PMR 45'	52	169	329	428	471	488
'Top Mark'	3	55	204	404	574	633
'Top Net'	28	134	267	419	517	539
LSD 5% Level	29	49	81	86	72	69

Imperial Valley, California<sup>2</sup>

<u>Variety</u>	<u>Marketable Crates Per Acre</u>		
	<u>9/14 to 9/21</u>	<u>9/24 to 9/28</u>	<u>Total</u>
'Top Mark'	37	151	188
'PMR 45'	121	30	151
'Top Net'	68	121	189

Fruits with sunburn, poor net, serious cracks, rots (all kinds) or overripes were excluded. Yields classified by size for crate determination.

The 50 foot plots had 5 replications. They were planted July 5, 1979 and furrow irrigated to emergence. The thinned spacing in-row was 12 inches. There were seven harvests on (September 14, 17, 19, 21, 24, 26, 29). Only full slip mature fruit were taken.



Yuma, Arizona<sup>3</sup>

Number and size of fruit versus date of pick

Date	'King Henry' ( 'Top Mark'-type)			'Top Net'			'PMR 45'		
	27	36	45	27	36	45	27	36	45
6/15	0	2	0	0	6	1	0	22	3
16	1	0	0	2	7	1	5	14	2
17	2	10	13	0	30	20	15	52	17
18	0	14	3	2	39	7	6	32	2
19	4	20	0	0	29	5	3	26	0
20	7	34	3	0	28	5	4	36	4
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
7/4	0	1	5	3	0	0	0	0	2
Total	47	279	194	47	328	152	54	341	172

Four replications, each replication 85 ft. Planted February 21, 1979. Seeds were planted to a stand of one plant per 12". Totals do not include any culling other than sunburns and growth cracks discovered at picking.

Generally the variety 'PMR 45' matures one week to 10 days earlier than 'Top Mark'. 'Top Net', being derived from a cross of these two varieties, has a maturity intermediate between 'PMR 45' and 'Top Mark'.

Note that in the Yuma, Arizona trial the variety 'King Henry' serves as a 'Top Mark'-type entry. 'Top Mark' and 'King Henry' are very similar in all respects, and are virtually indistinguishable from one another in variety trials.

---

1. 1979 Melon Variety Evaluations

K.B. Taylor  
Cooperative Extension  
Parlier, California

2. Imperial County Fall Cantaloupe Variety Trial - IVFS

Keith S. Mayberry  
Farm Advisor  
Imperial County Courthouse  
El Centro, California

3. 1979 University of Arizona Valley Experimental Farm Melon Variety Trial

Terry H. Mikel  
Extension Agent, Agriculture  
1047 Fourth Avenue  
Yuma, Arizona 85364

8000020

Photograph #1  
Top Net, blossom stage

Note faint ovary  
longitudinal lines.



Photograph #2  
PMR 45, blossom stage

Note distinct ovary  
longitudinal lines.



Photograph #3  
Top Mark, blossom stage

Note absence of ovary  
longitudinal lines.



8000020

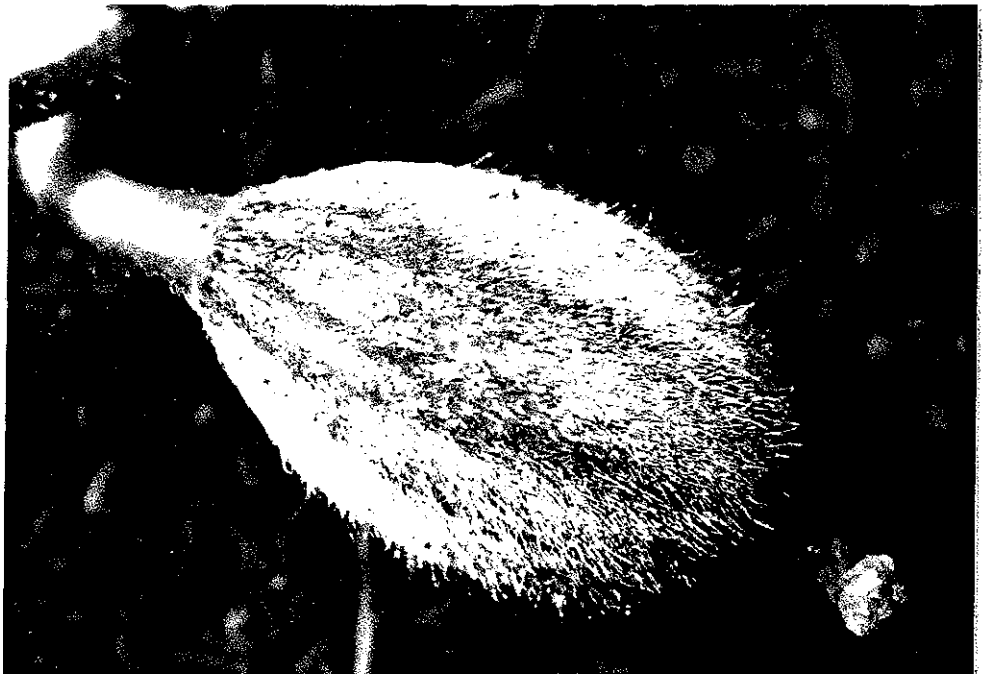
Photograph #4  
Top Net, post-bloom

Note faint ovary  
longitudinal lines.



Photograph #5  
PMR 45, post-bloom

Note distinct ovary  
longitudinal lines.



Photograph #6  
Top Mark, post-bloom

Note absence of ovary  
longitudinal lines.

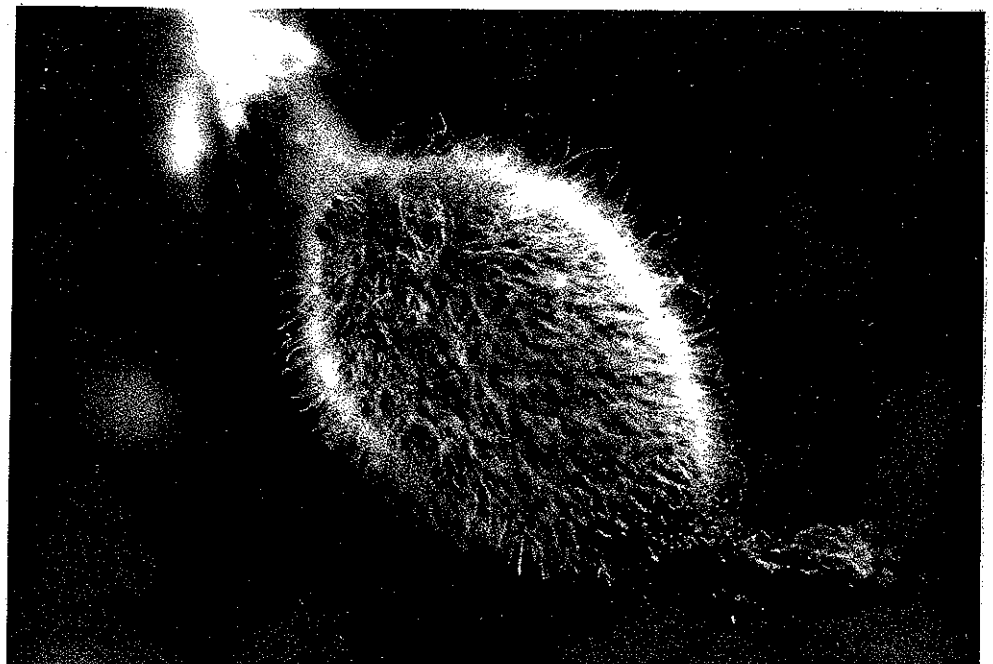
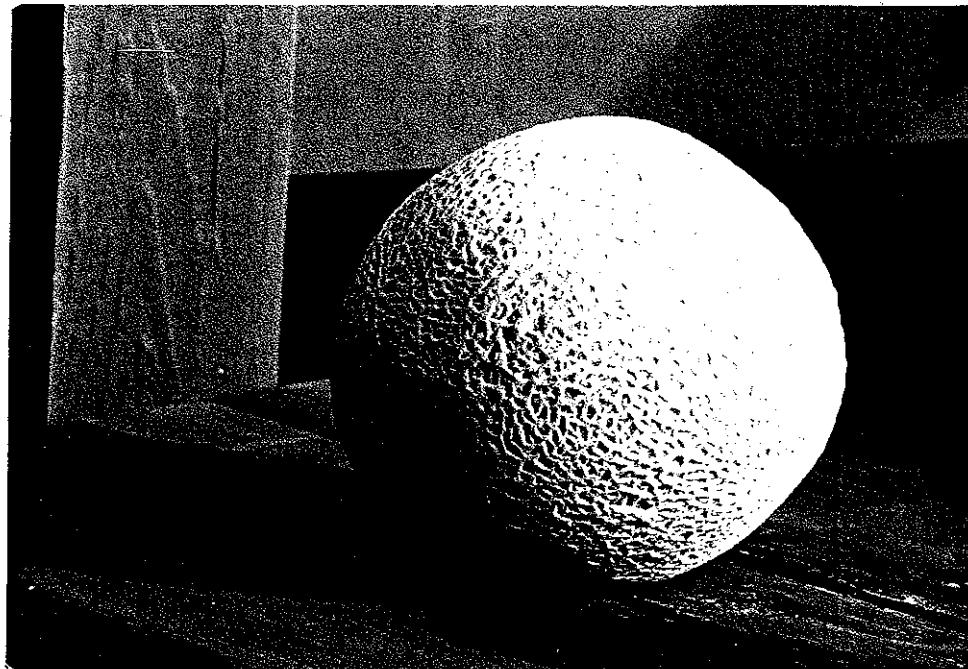


EXHIBIT B

8000020

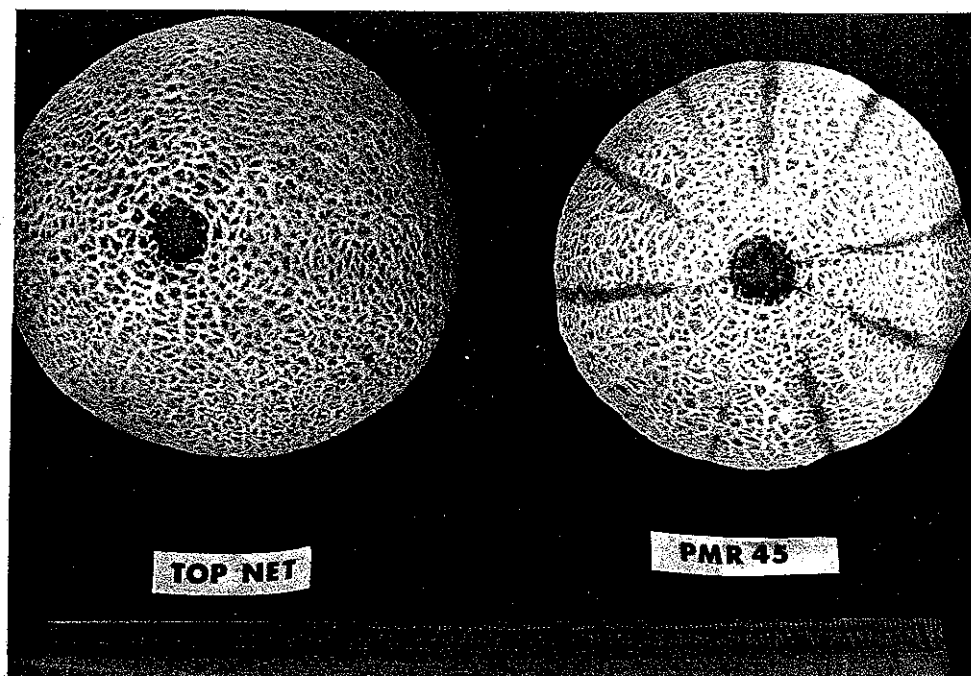
Photograph #7  
Top Net, mature fruit

Note fully netted  
appearance - no ribs  
or sutures.



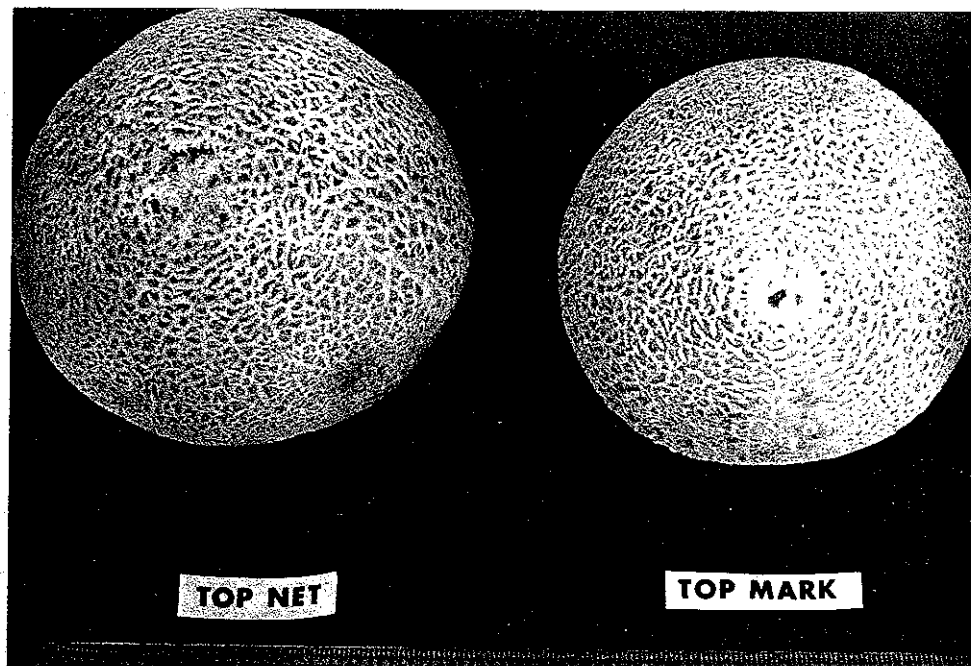
Photograph #8  
Top Net and PMR 45,  
mature fruit

Note fully netted  
appearance of Top Net  
compared with distinct  
ribs or sutures of  
PMR 45.



Photograph #9  
Top Net and Top Mark,  
mature fruit

Note fully netted  
appearance of both  
varieties.



## EXHIBIT C

FORM APPROVED: OMB NO. 40-R3712

FORM GR-470-38  
(6-76)U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
GRAIN DIVISION  
BELTSVILLE, MARYLAND 20705  
OBJECTIVE DESCRIPTION OF VARIETY  
Muskmelon. (*Cucumis melo* L.)

PAGE 1 OF 3

NAME OF APPLICANT(S) Moran Seeds, Inc.	VARIETY NAME OR TEMPORARY DESIGNATION Top Net
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) 1155 Harkins Rd. Salinas, CA 93901	FOR OFFICIAL USE ONLY PVPO NUMBER 8000020

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g.  or ) when number is either 99 or less.

## 1. TYPE:

<input type="text" value="5"/>	1 = PERSIAN	2 = HONEY DEW	3 = CASABA	4 = CRENSHAW	5 = COMMON OR SUMMER
	6 = OTHER _____				

## 2. AREA OF BEST ADAPTATION IN U.S.A.

<input type="text" value="3"/>	1 = SOUTHEAST	2 = NORTHEAST/NORTHCENTRAL	3 = SOUTHWEST	4 = MOST AREAS
--------------------------------	---------------	----------------------------	---------------	----------------

## 3. MATURITY (FROM SEEDING TO HARVEST):

<input type="text" value="0"/> <input type="text" value="7"/> <input type="text" value="8"/>	DAYS	<input type="text" value="4"/>	1 = FORDHOOK GEM (EARLY)
<input type="text" value="0"/> <input type="text" value="4"/>	NO. DAYS EARLIER THAN	<input type="text" value="4"/>	2 = DELICIOUS 51 (MIDSEASON)
<input type="text" value="0"/> <input type="text" value="4"/>	NO. DAYS LATER THAN	<input type="text" value="4"/>	3 = HONEY DEW (LATE)
			4 = OTHER (Specify) (4a) Top Mark; (4b) PMR 45

## 4. PLANT:

<input type="text" value="1"/>	1 = ANDROMONOECIOUS	2 = MONOECIOUS	3 = GYNOECIOUS	4 = OTHER _____
<input type="text" value="1"/>	1 = VINE	2 = SEMI-BUSH	3 = BUSH	

## 5. LEAF (MATURE BLADE OF THIRD LEAF)

<input type="text" value="1"/>	SHAPE: 1 = ORBICULAR	2 = OVATE	3 = RENIFORM
<input type="text" value="2"/>	1 = NOT LOBED	2 = SHALLOWLY LOBED	3 = DEEPLY LOBED
<input type="text" value="2"/>	1 = LIGHT GREEN (HONEY DEW)	2 = MEDIUM GREEN	3 = DK. GREEN (RIO GOLD)
<input type="text" value="1"/> <input type="text" value="3"/> <input type="text" value="0"/>	mm LENGTH	<input type="text" value="1"/> <input type="text" value="3"/> <input type="text" value="0"/>	mm WIDTH
<input type="text" value="3"/>	SURFACE: 1 = PUBESCENT	2 = GLABROUS	3 = SCABROUS

## 6. FRUIT (AT EDIBLE MATURITY):

<input type="text" value="1"/> <input type="text" value="5"/>	cm LENGTH	<input type="text" value="1"/> <input type="text" value="4"/>	cm DIAMETER	<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="2"/>	gm WEIGHT
<input type="text" value="2"/>	SHAPE: 1 = OBLATE 2 = OVAL 3 = ROUND 4 = ELONGATE-CYLINDRICAL 5 = SPINDLE 6 = ACORN				
<input type="text" value="2"/>	SURFACE: 1 = SMOOTH 2 = NETTED 3 = CORRUGATED 4 = WARTED				
<input type="text" value="2"/>	BLOSSOM SCAR: 1 = OBSCURE 2 = CONSPICUOUS				
<input type="text" value="1"/>	RIBS: 1 = ABSENT 2 = PRESENT				
<input type="text" value="0"/> <input type="text" value="0"/>	NO. RIBS PER FRUIT	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/>	mm RIB WIDTH AT MEDIAL	<input type="text" value="0"/>	RIBS: 1 = SMOOTH 2 = NETTED

## SUTURES:

<input type="text" value="0"/>	1 = SHALLOW (GOLDEN DELIGHT)	2 = MEDIUM	3 = DEEP (HACKENSACK)
<input type="text" value="0"/>	1 = SMOOTH	2 = NETTED	
<input type="text" value="3"/>	SHIPPING QUALITY: 1 = POOR (HOME GARDEN) 2 = FAIR (SHORT DISTANCE SHIPPING) 3 = EXCELLENT (LONG DISTANCE SHIPPING)		

<input type="text" value="1"/>	FRUIT ABSCISE: 1 = WHEN RIPE 2 = WHEN OVERRIPE 3 = DO NOT ABSCISS
--------------------------------	---

## 7. RIND NET:

3	1 = ABSENT	2 = SPARSE	3 = ABUNDANT
2	DISTRIBUTION: 1 = SPOTTY 2 = COVERS ENTIRE FRUIT		
2	COARSENESS: 1 = FINE 2 = MEDIUM COARSE 3 = VERY COARSE		
3	INTERLACING: 1 = NONE 2 = SOME 3 = COMPLETE		
2	INTERSTICES: 1 = SHALLOW 2 = MEDIUM DEEP 3 = DEEP		

## 8. RIND TEXTURE:

3	1 = SOFT	2 = FIRM	3 = HARD	10	mm THICKNESS AT MEDIAL
---	----------	----------	----------	----	------------------------

## 9. RIND COLOR (AT EDIBLE MATURITY):

COLORS: (SELECT TWO WHEN NECESSARY, i.e., CREAMY YELLOW 0204)

01 = WHITE 02 = CREAM 03 = BUFF 04 = YELLOW 05 = GOLD 06 = GREEN 07 = ORANGE 08 = BRONZE  
 09 = BROWN 10 = GRAY 11 = BLACK 12 = OTHER (Specify) None

0	4	0	7	PRIMARY COLOR
0	0	0	3	NET COLOR

0	0	1	2	MOTTLING COLOR
0	0	1	2	FURROW (SUTURE) COLOR

## RIND COLOR (AT FULL MATURITY)

0	5	0	7	PRIMARY COLOR
0	0	0	3	NET COLOR

0	0	1	2	MOTTLING COLOR
0	0	1	2	FURROW (SUTURE) COLOR

## 10. FLESH (AT EDIBLE MATURITY):

COLORS: (SELECT TWO WHEN NECESSARY, i.e., CREAMY YELLOW 23)

1 = WHITE 2 = CREAM 3 = YELLOW 4 = GREEN 5 = ORANGE 6 = SALMON 7 = PINK  
 8 = OTHER (Specify) \_\_\_\_\_

0	5	COLOR NEAR CAVITY	0	5	COLOR IN CENTER	0	5	COLOR NEAR RIND
1	3	REFRACTOMETER % SOLUABLE SOLIDS (CENTER OF FLESH)						
1	0	% SOLUABLE SOLIDS FOR CHECK VARIETY (Specify variety <u>PMR 45</u> )						
2	AROMA: 1 = ABSENT 2 = FAINT 3 = STRONG							
2	FLAVOR: 1 = MILD 2 = SOMEWHAT SPICY 3 = VERY SPICY							

## 11. SEED CAVITY:

0	9	0	mm LENGTH	5	7	mm WIDTH
1	SHAPE IN X-SECTION: 1 = CIRCULAR 2 = TRIANGULAR					

## 12. SEEDS:

4	8	0	NO. PER FRUIT	0	2	4	gm PER 1,000
---	---	---	---------------	---	---	---	--------------

## 13. DISEASE RESISTANCE \* (0 = UNTESTED, 1 = SUSCEPTIBLE, 2 = RESISTANT)

0	BACTERIAL WILT	0	ROOT ROT	0	CROWN BLIGHT	0	MELON RUST
2	POWDERY MILDEW	0	VERTICILLUM WILT	2	SULPHUR BURN	0	SCAB
0	WATERMELON MOSAIC	0	DOWNY MILDEW	0	FUSARIUM WILT	0	ROOT KNOT (NEMATODE)
0	ANTHRACNOSE	0	CUCUMBER MOSAIC	0	SQUASH MOSAIC	0	OTHER _____
				0	OTHER _____	0	OTHER _____

\* STATE GENUS, SPECIES, AND RACES WHEN KNOW, UNDER ITEM 16.

EXHIBIT DAdditional Description of the Top Net Variety

Top Net is a mid-season, 78 day, Western shipping type muskmelon in the PMR 45 - Top Mark class.

The fruit are fully netted like Top Mark (no ribs or sutures), and are a slight oval-round shape of the predominantly "36 size" (5½" dia. x 6" long). The flesh is crisp, orange, sweet (10%-16% soluble solids<sup>1</sup>), of excellent flavor and aroma, and averages 1½" in thickness. The flesh maintains better crispness through full slip maturity than either Top Mark or PMR 45, resulting in more durable fruit with improved shipping capability.

The seed cavity is normally small and tight (less than 2½" dia.), with three locules and 160 seeds per locule. Rind thickness is 3/8 inch.

The leaves, vine, flowering habit and pattern of fruit set of Top Net are similar to those of PMR 45. Unlike PMR 45, however, Top Net is tolerant to sulfur, although not resistant as is Top Mark. Top Net is also intermediate in powdery mildew tolerance (Spherotheca fuliginea race 1) between PMR 45 (resistant) and Top Mark (susceptible).

Variety trials over two years have demonstrated good adaptability of Top Net in four major Southwestern cantaloupe-growing areas, including Yuma, Arizona, and the Imperial Valley, Bakersfield and West Side area of the San Joaquin Valley in California.

---

<sup>1</sup>Bausch & Lomb Hand Refractometer (0-60%)

## ASSIGNMENT

WHEREAS, Moran Seeds, Inc. ("Moran"), a corporation duly organized and existing under the laws of the State of Delaware is the owner of United States Plant Variety Protection Certificates (the "Certificates"), listed in Exhibit A hereto and Pending United States Plant Variety Protection Applications (the "Applications"), listed in Exhibit B hereto; and

WHEREAS, in accordance with a Technology Transfer Agreement (the "Transfer Agreement") among Celanese Corporation ("Celanese"), Moran Seeds, Inc., Joseph Harris Company, Inc., CelPril Industries, Inc., Harris Moran International B.V. ("Sellers"), Virginia Chemicals, Inc., Les Produits Organiques du Santerre-Orsan S.A. ("Orsan"), HMS Acquisition Inc., CP Acquisition Inc., and Exploitiemaatschappij Wolwevershaven B.V., dated January 10, 1985, and a Purchase Agreement dated December 7, 1985, as amended, among Celanese, Sellers and Orsan, Orsan has purchased from Moran said Certificates and Applications.

NOW, THEREFORE, in accordance with said Transfer Agreement and Purchase Agreement, Moran assigns to Orsan all of its rights, title and interest in and to said Certificates and Applications.

Moran hereby authorizes Orsan to apply for and obtain the recordation of this Assignment. Moran agrees that it shall, without further consideration, promptly and duly cause to be performed such lawful acts and execution of any other documents as Orsan may reasonably request in order for Orsan to obtain the full benefits of this Assignment and to permit Orsan to be duly recorded in each office, bureau and tribunal in the appropriate jurisdiction as the registered owner or proprietor of each of the rights hereby assigned. Such instruments and documents shall include, without limitation, such applications, affidavits and other documents for filing in such jurisdictions as Orsan may from time to time reasonably request.

By these presents Orsan does hereby accept this Assignment and authorize the recording thereof with the appropriate authorities aforesaid.



IN WITNESS WHEREOF, the parties have caused this Assignment to be executed by its proper officers thereunto duly authorized this 10th day of January, 1985.

MORAN SEEDS, INC.,  
Assignor

By: David A. Jenkins  
David A. Jenkins  
Vice President

LES PRODUITS ORGANIQUES DU  
SANTERRE-ORSAN S.A.  
Assignee

By: [Signature]  
Title: Attorney-in-fact

STATE OF New York  
COUNTY OF New York

Before me, a Notary Public, in and for said County, personally appeared David Jenkins who acknowledged that he is Vice President of Moran Seeds, Inc., the corporation which executed the foregoing instrument and who acknowledged he signed said instrument on behalf of said corporation by authority of its Board of Directors; and that said instrument is the free corporate act and deed of said Moran Seeds, Inc.

Sworn before me at New York this 10th day  
of January, 1985

Alex C. Lengyel  
NOTARY PUBLIC

(Notary Public)

My Commission Expires:

ALEX C. LENGYEL  
Notary Public, State of New York  
Qualified in New York County  
Commission Expires March 30, 1986

STATE OF New York  
COUNTY OF New York

Before me, a Notary Public, in and for said County, personally appeared Patrice LaFoddy who acknowledged that he is ~~Patrice LaFoddy~~ of Les Produits Organiques du Santerre-Orsan S.A., the corporation which executed the foregoing instrument and who acknowledged he signed said instrument on behalf of said corporation by authority of its Board of Directors; and that said instrument is the free corporate act and deed of said Les Produits Organiques du Santerre-Orsan S.A.

Sworn before me at New York this 10th  
day of January, 1985.

Alex C. Lengyel  
NOTARY PUBLIC

(Notary Public)

My Commission Expires:

ALEX C. LENGYEL  
Notary Public, State of New York  
No. 31480173  
Qualified in New York County  
Commission Expires March 30, 1986

United States Plant Variety Protection Certificates

<u>Cert. No.</u>	<u>Date Issued</u>	<u>Kind</u>	<u>Variety Name</u>	<u>Owner</u>
7200145	10/30/74	Garden Bean	Gem	Moran Seeds, Inc.
7200146	11/15/74	Watermelon	Charleston 76	Moran Seeds, Inc.
7400013	5/9/74	Lettuce	Calmaria	Moran Seeds, Inc.
7400014	6/19/74	Lettuce	Cal K-60	Moran Seeds, Inc.
7400071	6/19/74	Lettuce	Cabrillo	Moran Seeds, Inc.
7600032	9/15/77	Lettuce	Vanagara	Moran Seeds, Inc.
7600039	12/8/77	Lettuce	Morangold	Moran Seeds, Inc.
7800028	5/31/79	Muskmelon	Valley Gold	Moran Seeds, Inc.
7900038	1/14/82	Garden Bean	Blue Duet	Moran Seeds, Inc.
7900039	7/15/82	Snapbean	Score	Moran Seeds, Inc.
7900066	11/27/79	Cauliflower	Snowball 123	Moran Seeds, Inc.
8000020	7/31/80	Muskmelon	Top Net	Moran Seeds, Inc.
8000082	12/10/81	Lettuce	Delmar	Moran Seeds, Inc.
8200019	10/28/82	Onion	OMO M	Moran Seeds, Inc. Oshita, Inc.
8200061	3/24/83	Watermelon	Sun Gold	Moran Seeds, Inc.
8200104	10/28/82	Tomato	Advantage	Moran Seeds, Inc.
8200105	11/26/82	Tomato	Moran 3053	Moran Seeds, Inc.
8200027	4/23/83	Lettuce	El Toro	Moran Seeds, Inc.
8100172	9/29/83	Lettuce	Van Mor	Moran Seeds, Inc.
8300113	8/31/84	Muskmelon	Top Net SR	Moran Seeds, Inc.

Pending United States Plant Variety Protection Applications

<u>Application No.</u>	<u>Filing Date</u>	<u>Kind</u>	<u>Variety Name</u>	<u>Owner</u>
8100167	9/9/81	Lettuce	Yuma	Moran Seeds, Inc.
8300155	7/18/83	Celery	Bishop	Moran Seeds, Inc.
8300156	7/18/83	Celery	Deacon	Moran Seeds, Inc.
8300172	9/1/83	Tomato	Diego	Moran Seeds, Inc.
8400013	12/1/83	Lettuce	Greenfield	Moran Seeds, Inc.

DEED OF ASSIGNMENT

WHEREAS, Les Produits Organiques du Santerre - ORSAN (S.A.), a French corporation having a place of business at 16 rue Ballus, 75009 Paris, France (hereinafter referred to as "ASSIGNOR") owns and is using the Plant Variety Protection Certificates listed on the attached Exhibit for the indicated varieties which were awarded to ASSIGNOR by the Secretary of Agriculture on the indicated dates upon applications filed with the United States Plant Variety Protection Office; and

WHEREAS, Arisix (S.A.), a French corporation having a place of business at 61 rue des Belles Feuilles, 75116 Paris, France,

(hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to the said varieties and Plant Variety Protection Certificates;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE'S successors and assigns, all right, title and interest in and to the said varieties and said Plant Variety Protection Certificates in the United States including reissues, and including the right to enforce such rights against any past, present or future violation thereof, the said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any right, title and interest assigned and transferred hereby.

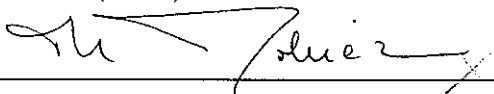
ASSIGNOR further agrees that it will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the assignment of said Certificates and the perfection of all rights thereto, execute, verify, acknowledge and deliver all such further papers and instruments of assignment and transfer

thereof, and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain the listed Certificates and to vest title thereto in said ASSIGNEE or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, an authorized representative of ASSIGNOR has hereunto signed its name to this assignment on the date indicated below.

Les Produits Organiques du Santerre  
- ORSAN (S.A.)

Date: 1/11/95



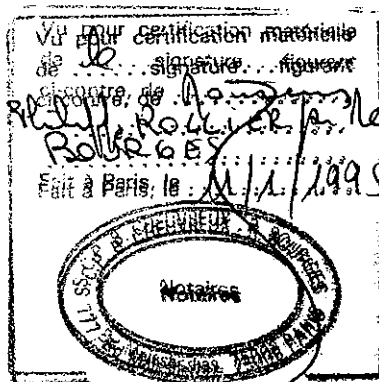
PHILIPPE ROLLIER  
Print Name

PRESIDENT  
Print Title

On this date, \_\_\_\_\_, 1993, before me, the undersigned notary public, personally appeared the above-named assignor, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same.

\_\_\_\_\_  
(Notaire)

Seal/Stamp



712

DEED OF ASSIGNMENT

WHEREAS, Arisix (S.A.), a French corporation having a place of business at 61 rue des Belles Feuilles, 75116 Paris, France (hereinafter referred to as "ASSIGNOR") owns and is using the Plant Variety Protection Certificates listed on the attached Exhibit for the indicated varieties which were awarded to ASSIGNOR by the Secretary of Agriculture on the indicated dates upon applications filed with the United States Plant Variety Protection Office; and

WHEREAS, Clause (S.A.), a French corporation having a place of business at 1 Avenue Lucien Clause, 91221 Bretigny sur ORGE Cedex, France,

(hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to the said varieties and Plant Variety Protection Certificates;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE'S successors and assigns, all right, title and interest in and to the said varieties and said Plant Variety Protection Certificates in the United States including reissues, and including the right to enforce such rights against any past, present or future violation thereof, the said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any right, title and interest assigned and transferred hereby.

ASSIGNOR further agrees that it will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the assignment of said Certificates and the perfection of all rights thereto, execute, verify, acknowledge and deliver all such further papers and instruments of assignment and transfer



thereof, and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain the listed Certificates and to vest title thereto in said ASSIGNEE or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, an authorized representative of ASSIGNOR has hereunto signed its name to this assignment on the date indicated below.

Date: 1/11/95

Arisix (S.A.)

[Signature]

P. DE SAINT RAPT

Print Name

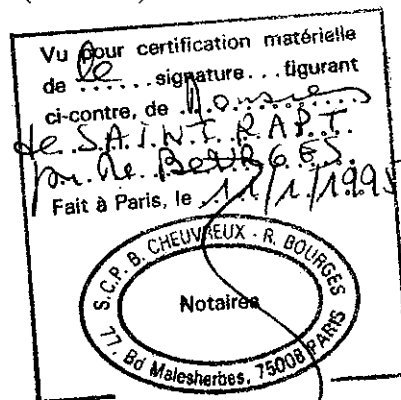
PRESIDENT

Print Title

On this date, \_\_\_\_\_, 1993, before me, the undersigned notary public, personally appeared the above-named assignor, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same.

Seal/Stamp

(Notaire)



# EXHIBIT

Certif. #	Date Status Begins	Crop	Variety Name
<del>7600032</del>	<del>09/15/77</del>	Lettuce	<del>Vanagara</del>
<del>7600039</del>	<del>12/08/77</del>	<del>Lettuce</del>	<del>Morangold</del>
<del>7605018</del>	<del>09/28/77</del>	Marigold	Cabaret Orange
7800028	05/31/79	Muskmelon	Valley Gold
7800033	12/21/78	Radish	Fancy Red
7800086	01/25/79	Lettuce	Deep Red
7900038	01/14/82	Garden Bean	Blue Duet
7900039	07/15/82	Garden Bean	Score
7900066	11/27/79	Cauliflower	Snowball 123
8000020	07/31/80	Muskmelon	Top Net
8000082	12/10/81	Lettuce	Delmar
8100167	3/29/85	Lettuce	Yuma
8100172	09/29/83	Lettuce	Van Mor
8200027	04/23/83	Lettuce	El Toro
8200045	09/23/82	Turnip	Royal Gem
8200061	03/24/83	Watermelon	Sun Gold
8200068	12/30/82	Egg Plant	Little Fingers
8200104	10/28/82	Tomato	Advantage
8200105	11/26/82	Tomato	Moran 3053
8300024	12/30/83	Radish	Red King
8300113	08/31/84	Muskmelon	Top Net SR
8300155	02/22/85	Celery	Bishop
8300156	01/25/85	Celery	Deacon
8300172	11/29/85	Tomato	Harris Morgan 3075
8400013	2/19/88	Lettuce	Greenfield
8600032	03/11/88	Tomato	Murrieta II

Expired

Expired

Expired

**PLANT VARIETY PROTECTION REGISTRATION ASSIGNMENTS**

**Clause, S.A. to Harris Moran Seed Company**

**WHEREAS**, Clause, S.A. ("Assignor"), a corporation organized and existing under the laws of France, has sold and transferred assets, including plant variety protection registrations, to Harris Moran Seed Company ("Assignee"), a corporation organized and existing under the laws of the State of Maryland;

**WHEREAS**, Assignor, is the owner of the following plant variety protection registrations:

<b><u>VARIETY NAME</u></b>	<b><u>Registration No.</u></b>	<b><u>Issue Date</u></b>
BLUE DUET	7900038	01/14/82
SCORE	7900039	07/15/82
TOP NET SR	8300113	08/31/84
TOP NET	8000020	07/31/80
SNOWBALL 123	7900066	11/27/79
BISHOP	8300155	02/22/85
DEACON	8300156	01/25/85
LITTLE FINGERS	8200068	12/30/82
EL TORO MI	8200027	04/28/83
DELMAR MI	8000082	12/10/81
GREENFIELD MI	8400013	02/19/88
VAN MOR MI	8100172	03/29/83
YUMA MI	8100167	03/29/85

RED KING	8300024	12/30/83
MORAN 3053	8200105	11/26/82
ADVANTAGE	8200104	10/28/82
HARRIS MORAN 3075	8300172	11/29/85
ROYAL GEM	8200045	09/23/82
SUN GOLD	8200061	03/24/83

**WHEREAS**, Assignor is desirous of selling and Assignee is desirous of acquiring the aforesaid plant variety protection registrations of Assignor.

**NOW THEREFORE**, for \$10.00 and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, by these presents sells, assigns and transfers to Assignee, its successors and assigns, all right title and interest in and to the above-referenced plant variety protection registrations, to be held and enjoyed by said Assignee, as fully as the same would have been enjoyed by said Assignor, had this assignment not been made.

Assignor also assigns and transfers to Assignee, any and all causes of action, claims, demands, or other rights occasioned from or because of any and all past infringement of any of the above referenced plant variety protection registrations.

Assignor further agrees that upon request, it will execute any and all documents necessary to vest all rights, title and interest in and to the above-referenced plant variety protection registrations

IN WITNESS WHEREOF, said Assignor, has affixed its signature hereto this 22 day of

January, 1997.

CLAUSE, S.A.

By: 

Name: John W. Fowler

Title: Chairman

## ASSIGNMENT OF INTELLECTUAL PROPERTY

WHEREAS, HARRIS MORAN SEED COMPANY, a corporation duly organized and existing under the laws of the State of Maryland, having its principal place of business at 4511 Willow Road, Suite 3, Pleasanton, California 94588 ("Assignor"), has, pursuant to that certain Bill of Sale and Assignment dated as of June 30, 1997, transferred to FERRY-MORSE SEED COMPANY (CALIFORNIA), a corporation duly organized and existing under the laws of the State of California, having its principal place of business at 555 Codoni Avenue, P.O. Box 4938, Modesto, California 95352-4938 ("Assignee"), all of the intellectual property Assignor had adopted, used and was using as of the effective date of this Assignment, including without limitation, the intellectual property represented by the United States Plant Variety Protection Certificates of Assignor identified on Schedule A hereto (collectively, the "Property"); and

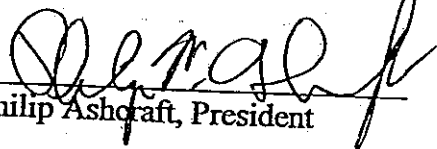
WHEREAS, on the date hereof, Assignee has changed its name to "Harris Moran Seed Company";

NOW, THEREFORE, effective by this instrument as of the close of business on June 30, 1997, and for good and valuable consideration, receipt of which is hereby acknowledged, Assignor hereby assigns to Assignee any and all right, title and interest worldwide in and to the Property and any and all recordations thereof, including, but not limited to, the use of the Property in any manner, all benefit of any and all prior use of the Property, and any and all rights to initiate claims or proceedings for past, present or future infringements of Assignor's rights, title and interest in and to the Property.

Dated: as of June 30, 1997

HARRIS MORAN SEED COMPANY

By:

  
Philip Ashcraft, President

CERTIFICATE OF AMENDMENT  
OF THE  
ARTICLES OF INCORPORATION  
OF

FERRY-MORSE SEED COMPANY (CALIFORNIA)  
(a California corporation)

14300010

ENDORSED  
FILED

In the office of the Secretary of State  
of the State of California

JUN 30 1997

*Bill Jones*  
BILL JONES, Secretary of State

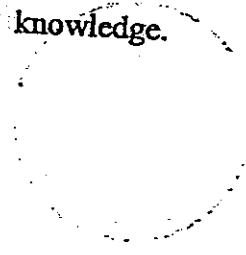
To the Secretary of State  
State of California

Pursuant to the provisions of the General Corporation Law of the State of California, the undersigned officers of FERRY-MORSE SEED COMPANY (CALIFORNIA), a California corporation (the "Corporation"), do hereby certify as follows:

1. The name of the Corporation is Ferry-Morse Seed Company (California).
2. Article One of the Corporation's Articles of Incorporation, which relates to the name of the Corporation, is hereby amended in its entirety to read as follows:
  - One. The name of this Corporation is:  
HARRIS MORAN SEED COMPANY.
3. The amendment herein provided for has been approved by the Corporation's Board of Directors.
4. The amendment herein provided for was approved by the written consent of the Corporation's sole shareholder in accordance with the provisions of Section 902 of the California General Corporation Law. The total number of outstanding shares of the corporation is 5,000.

IN WITNESS WHEREOF, each of the undersigned does hereby declare under the penalty of perjury that he or she signed the foregoing Certificate of Amendment as of June 30,

1997, in the Town of Modesto, State of California, in the official capacity set forth beneath his or her signature and that the statements set forth in this certificate are true of his or her own knowledge.

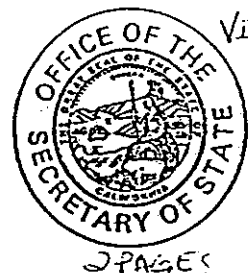
  
Yves Queste  
Yves Queste, President

Helen Andritsakis  
Helen Andritsakis, Secretary



## State of California

SECRETARY OF STATE



I, *BILL JONES*, Secretary of State of the State of California, hereby certify:

That the attached transcript has been compared with the record on file in this office, of which it purports to be a copy, and that it is full, true and correct.

IN WITNESS WHEREOF, I execute  
this certificate and affix the Great  
Seal of the State of California this

JUN 30 1997



*Bill Jones*

Secretary of State

## 14. INSECT RESISTANCE: (0 = UNTESTED, 1 = SUSCEPTIBLE, 2 = RESISTANT)

0	APHID	0	PICKLE WORM	0	DARKLING GROUND-BEETLE	0	BANDED CUCUMBER BEETLE
0	MITE	0	WESTERN SPOTTED CUCUMBER BEETLE	0	MELON LEAFHOPPER	0	OTHER (Specify)
0	MELON WORM	0	WESTERN STRIPED CUCUMBER BEETLE	0	MELON LEAFMINER		

## 15. NAME A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED FOR THE FOLLOWING CHARACTERISTICS:

CHARACTER	VARIETY	CHARACTER	VARIETY
DAYS MATURITY	Top Mark	FRUIT SHAPE	PMR 45
PLANT VIGOR	PMR 45	RIND COLOR	PMR 45
PLANT HABIT	PMR 45	FLESH AROMA	Top Mark
FRUIT NETTING	Top Mark	FLESH FLAVOR	Top Mark
FRUIT SIZE	PMR 45	FLESH COLOR	Top Mark

## 16. ADDITIONAL INFORMATION AND COMMENTS:

Shipmaster is a newly-introduced variety which resembles Top Net. However, Shipmaster segregates approximately 50:50 for ribbed or sutured fruit and fully netted fruit. Top Net fruit are all fully netted without any ribs or sutures, except that approximately 0.2% of the population as described in Exhibit A may express ribs or sutures.